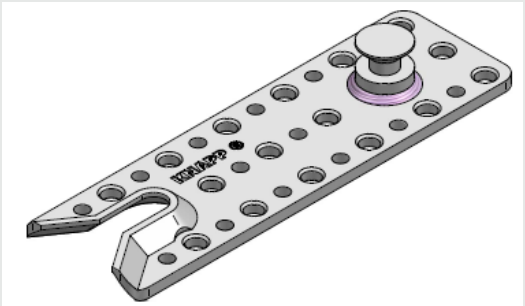
Montageanleitung Construction Manual Notice de montage

VERSION 22.02.2024

RICON® S 200/60 VS



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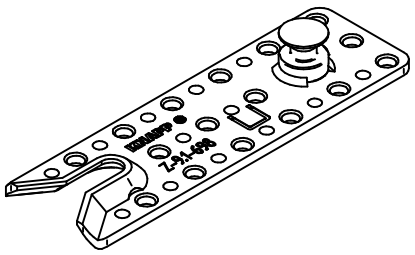

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Montageanleitung

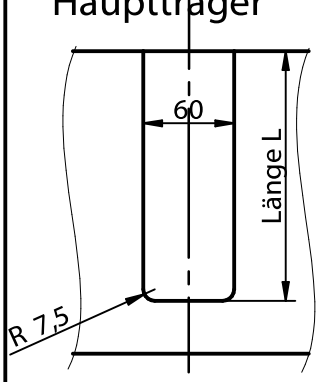
RICON® S 200/60 VS

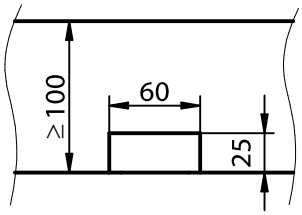
Verschweißter Kragenbolzen

CE
ETA-10/0189

Ausfräsung im Hauptträger

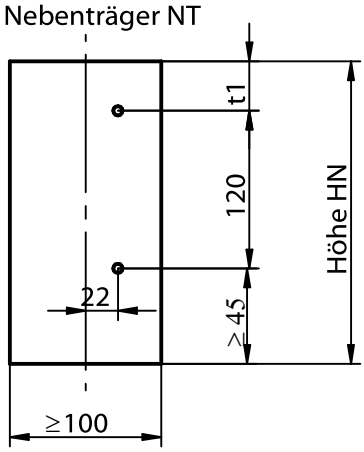
1. Fräsen im Hauptträger





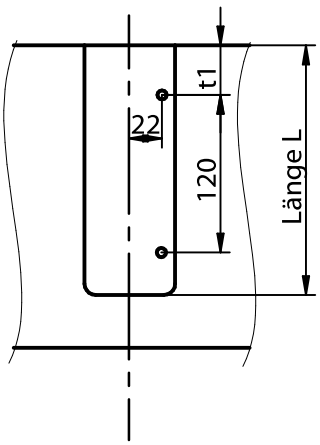
2. Positionierbohrungen

Nebenträger NT



2 Positionierbohrungen ∅ 5 mm
im Hirnholz, Tiefe 50 mm

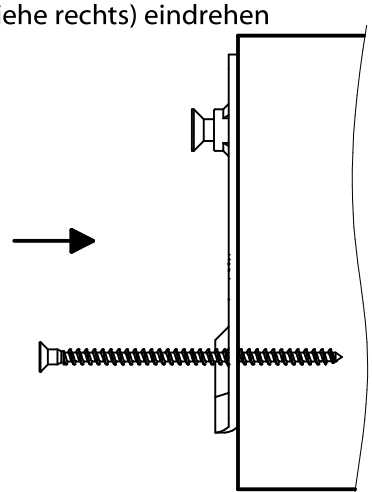
Hauptträger HT



2 Positionierbohrungen ∅ 5 mm
im Längsholz, Tiefe 50 mm

3. Verschrauben

1. Verbinder mit 2 Schrauben in Positionierbohrungen befestigen
2. Alle weiteren selbstbohrende Schrauben it. Schraubenbild (siehe rechts) eindrehen

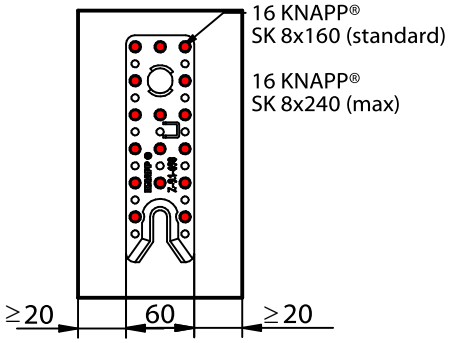


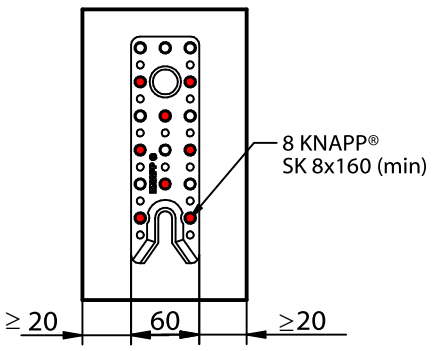
RICON S Schraube	Bruchdrehmoment $M_{tu,k}$ [Nm]	Anziehdrehmoment [Nm]
8x80	30	22
8x160	30	24
8x240	30	24

Hinweis:
Schlagbohrer und Impulsschrauber sind nach EC5 zum Einschrauben nicht geeignet!

Befestigung im Nebenträger NT

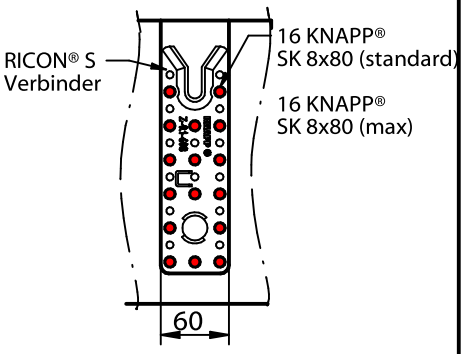
Schraubenanzahl und Positionen:

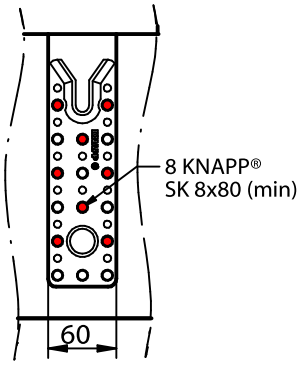




Befestigung im Hauptträger HT

Schraubenanzahl und Positionen:





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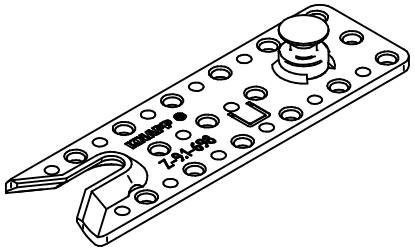


Art.-Nr. K127

Montageanleitung

RICON® S 200/60 VS

Verschweißter Kragenbolzen

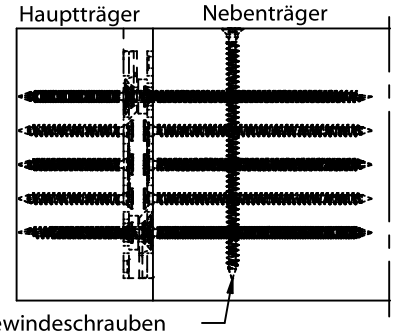
CE
ETA-10/0189

Ausfräsung im Hauptträger

Einfräslänge L im Hauptträger in Abhängigkeit der Nebenträgerhöhe H_N	
Nebenträger-höhe H_N	RICON® S 200x60
	Länge L ohne Querzugverstärkung
[mm]	[mm]
160	-
180	-
200	-
220	-
240	210
260	220
280	240
300	250
320	-
360	-

Randabstand der Positionierbohrungen t1 im Haupt- und Nebenträger in Abhängigkeit der Nebenträgerhöhe H_N	
Nebenträger-höhe H_N	RICON® S 200x60
	Randabstand t1 im Nebenträger
	Abstand t1
[mm]	[mm]
160	-
180	-
200	-
220	-
240	50
260	60
280	80
300	90
320	-

Wichtiger Hinweis:
Sollten geringere Nebenträgerhöhen verwendet werden, muss vom Statiker ein Querzugnachweis durchgeführt werden. Der Querschnitt kann mit Vollgewindeschrauben querzugverstärkt werden, die vom Statiker zu bemessen sind (EN 1995-1-1, NAD)!



Selbstbohrende Vollgewindeschrauben
zur Querzugverstärkung des Nebenträgers

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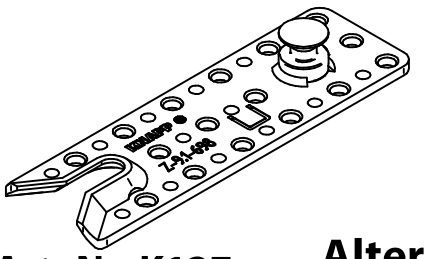

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Montageanleitung

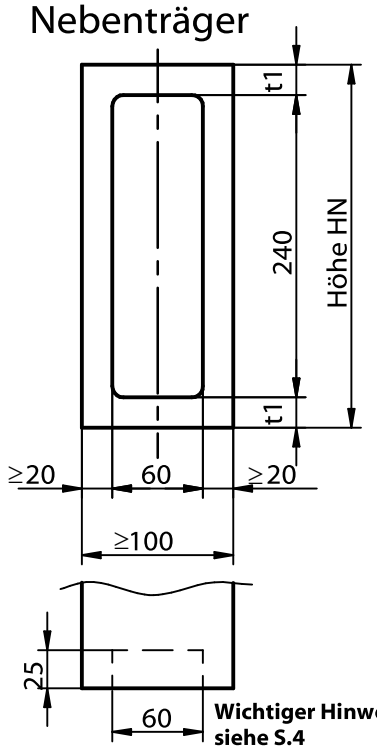
RICON® S 200/60 VS

Verschweißter Kragenbolzen

CE
ETA-10/0189

Alternativ: Ausfräsung im Nebenträger

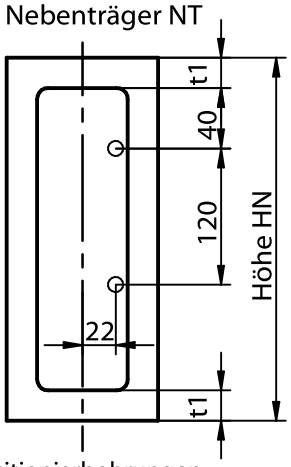
1. Fräsen im Nebenträger



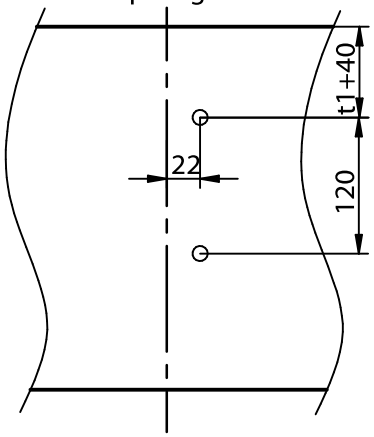
Wichtiger Hinweis siehe S.4

2. Positionierbohrungen

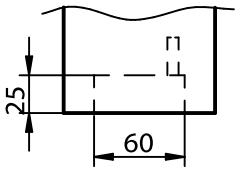
Nebenträger NT



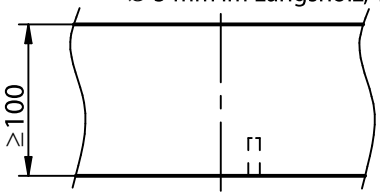
Hauptträger HT



2 Positionierbohrungen
∅ 5 mm im Hirnholz, Tiefe 50 mm

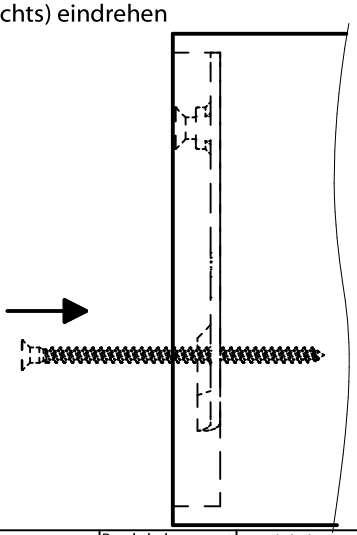


2 Positionierbohrungen
∅ 5 mm im Längsholz, Tiefe 50 mm



3. Verschrauben

1. Verbinder mit 2 Schrauben in Positionierbohrungen befestigen
2. Alle weiteren selbstbohrende Schrauben it. Schraubenbild (siehe rechts) eindrehen

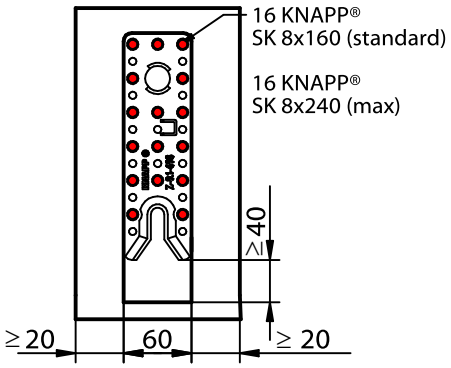


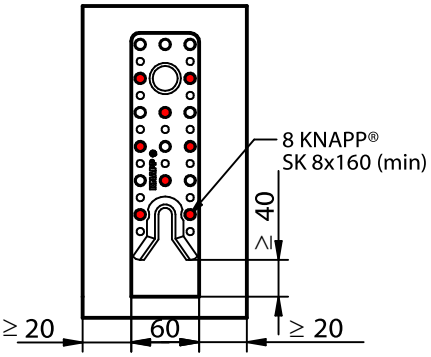
RICON S Schraube	Bruchdrehmoment Mtu,k [Nm]	Anziehdrehmoment [Nm]
8x80	30	22
8x160	30	24
8x240	30	24

Hinweis:
Schlagbohrer und Impulsschrauber sind nach EC5 zum Einschrauben nicht geeignet!

Befestigung im Nebenträger NT

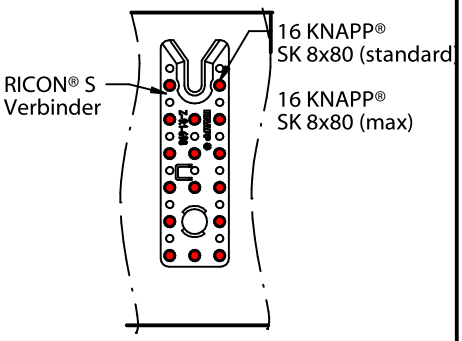
Schraubenanzahl und Positionen:

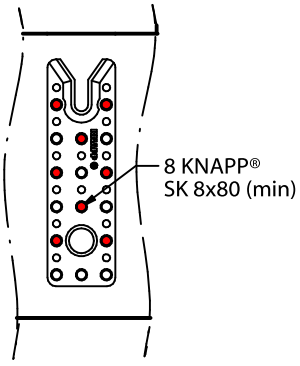




Befestigung im Hauptträger HT

Schraubenanzahl und Positionen:





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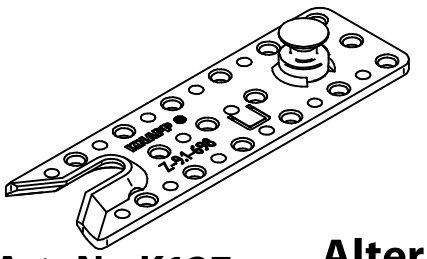

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Montageanleitung

RICON® S 200/60 VS

Verschweißter Kragenbolzen

CE

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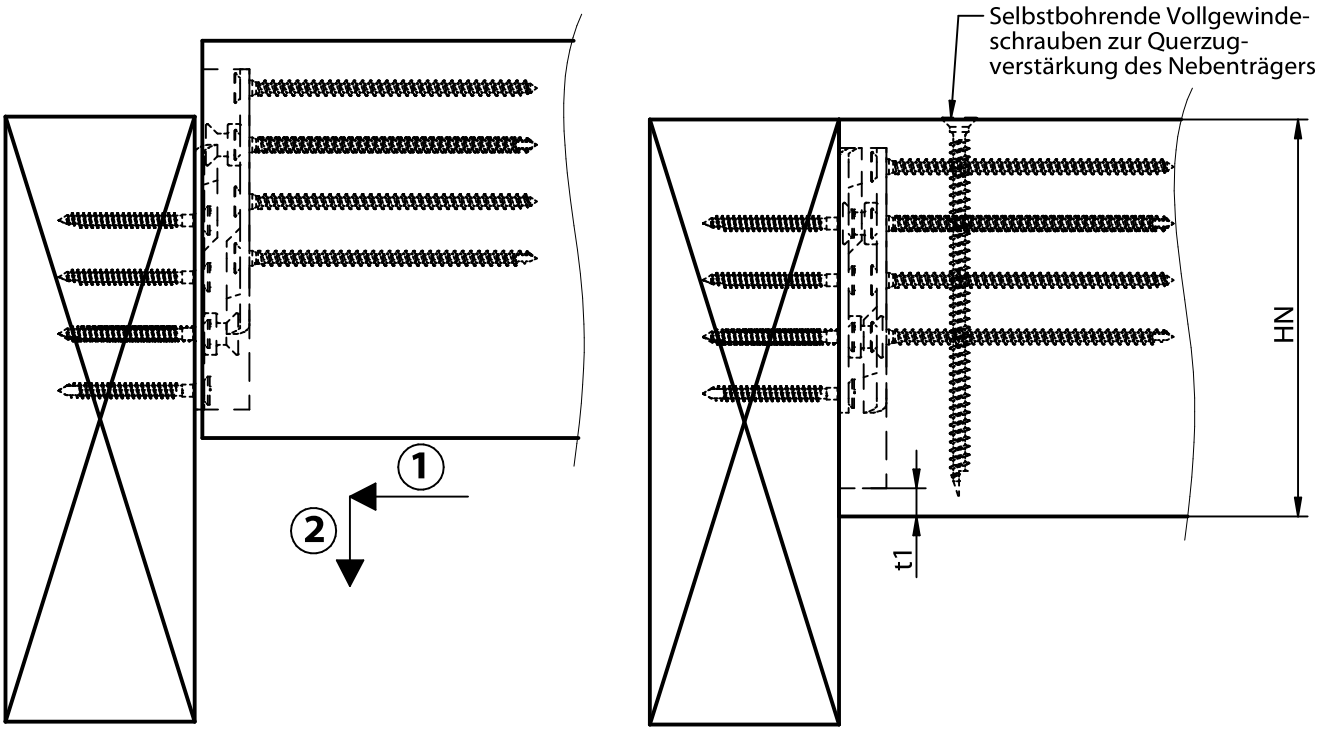
Alternativ: Ausfräsung im Nebenträger



Wichtiger Hinweise:
Bei der Montage des Nebenträgers zwischen zwei fixierten Hauptträgern oder Stützen muss die Ausfräsung nach unten durchgefräst werden um den Träger einhängen zu können.

Nebenträger-	Randabstand t1 in Abhängigkeit der Nebenträgerhöhe H_N
höhe	RICON® S 200x60
H_N	Abstand t1
[mm]	[mm]
200	-
220	-
240	-
260	10
280	20
300	30
320	40
340	-
360	-

Wichtiger Hinweis:

Sollten geringere Nebenträgerhöhen verwendet werden, muss vom Statiker ein Querzugnachweis durchgeführt werden. Der Querschnitt kann mit Vollgewindeschrauben querzugverstärkt werden, die vom Statiker zu bemessen sind (EN 1995-1-1, NAD) !

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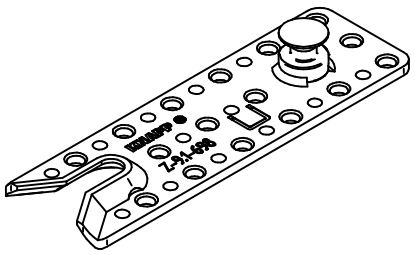


Art.-Nr. K127

Montageanleitung

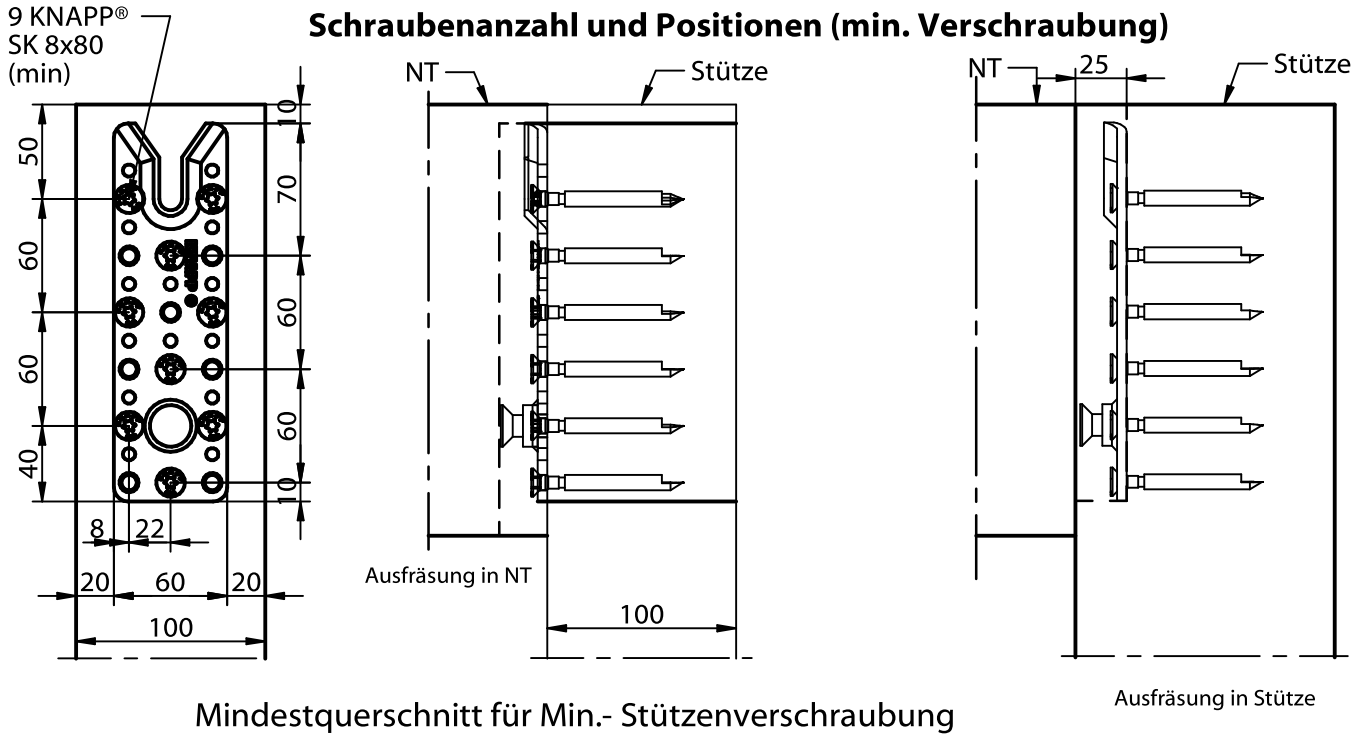
RICON® S 200/60 VS

Verschweißter Kragenbolzen

CE
ETA-10/0189

Stützenanschluss

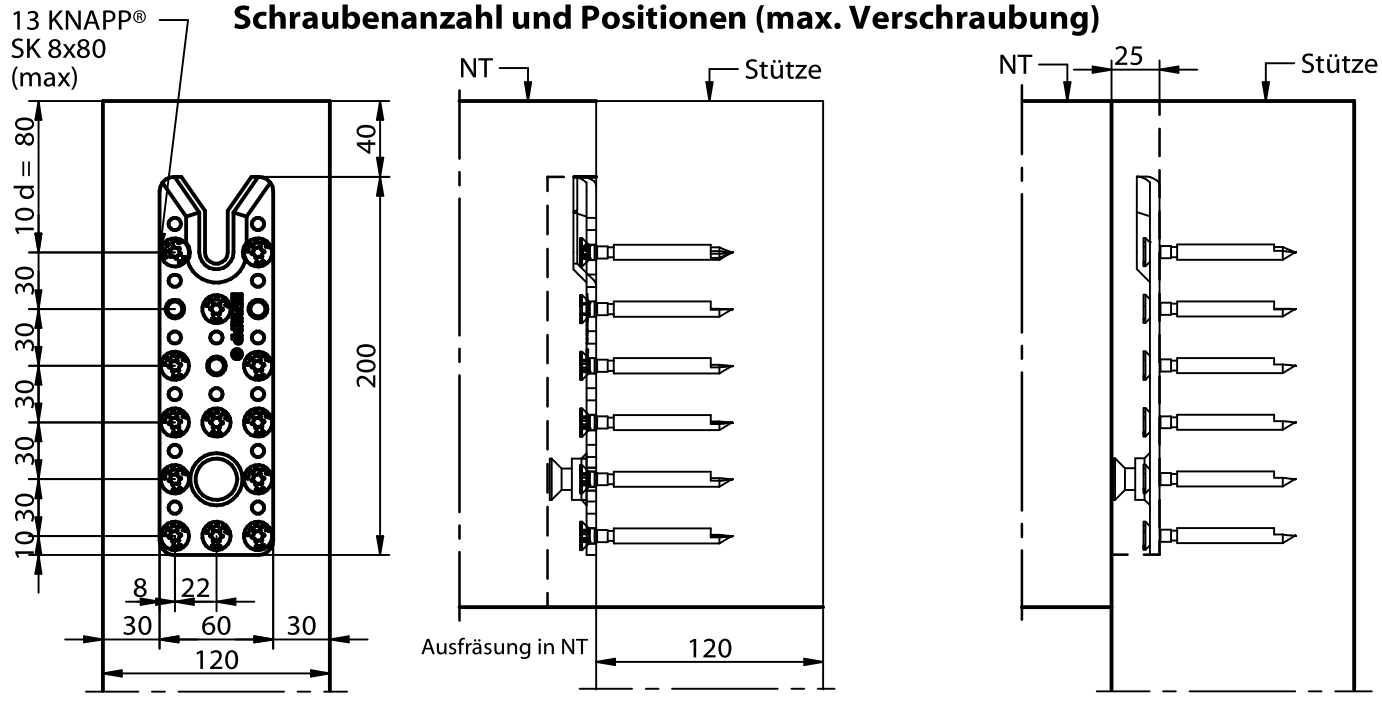
Schraubenanzahl und Positionen (min. Verschraubung)



Mindestquerschnitt für Min.- Stützenverschraubung

Mindestquerschnitte gelten für Brettschichtholz.
Im Nadelvollholz müssen die 8x80 mm Schrauben mit d=5 mm auf ganze Länge vorgebohrt werden!

Schraubenanzahl und Positionen (max. Verschraubung)



Mindestquerschnitt für Max.- Stützenverschraubung

Mindestquerschnitte gelten für Brettschichtholz.
Im Nadelvollholz müssen die 8x80 mm Schrauben mit d=5 mm auf ganze Länge vorgebohrt werden!

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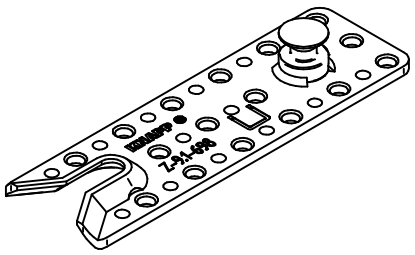

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Montageanleitung

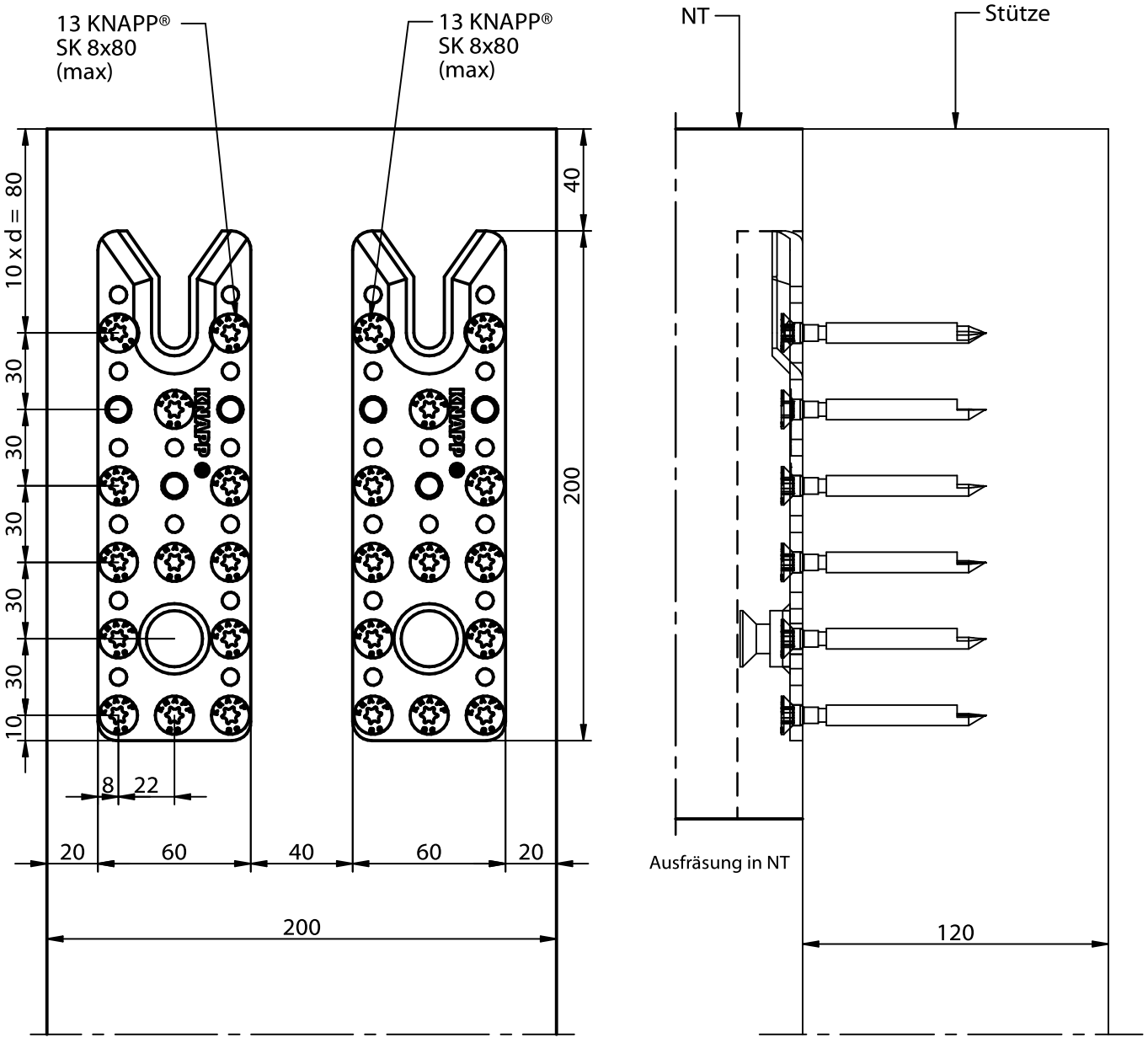
RICON® S 200/60 VS

Verschweißter Kragenbolzen

CE
ETA-10/0189

Stützenanschluss

Schraubenanzahl und Positionen(max. Verschraubung)



Mindestquerschnitt für 2 RICON S 200x60 VS Stüzenanschluss nebeneinander

Mindestquerschnitte gelten für Brettschichtholz.
Im Nadelvollholz müssen die 8x80 mm Schrauben mit d=5 mm auf ganze Länge vorgebohrt werden!

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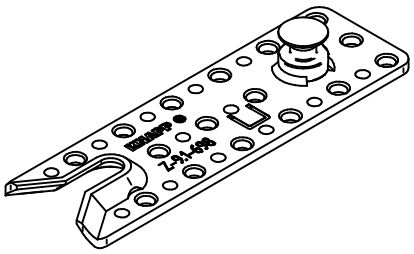
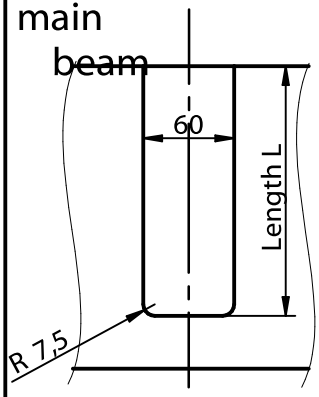


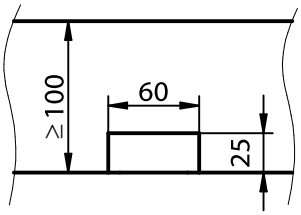
Art.-No. K127

Assembly instructions
RICON® S 200/60 VS
Welded collar bolt
Milling the main beam

CE
ETA-10/0189

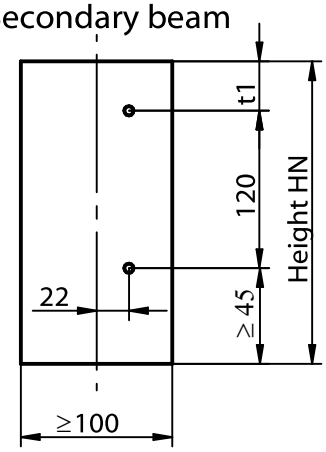
1. Milling pattern main beam





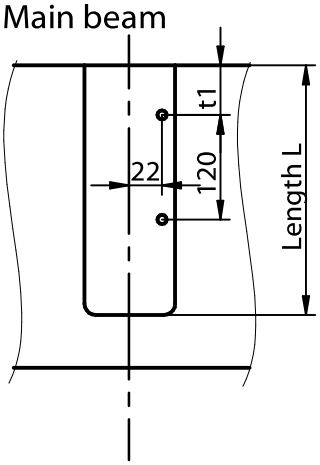
2. Pre drilling centered installation of connector

Secondary beam



2 x holes Ø 5,
depth 50 mm

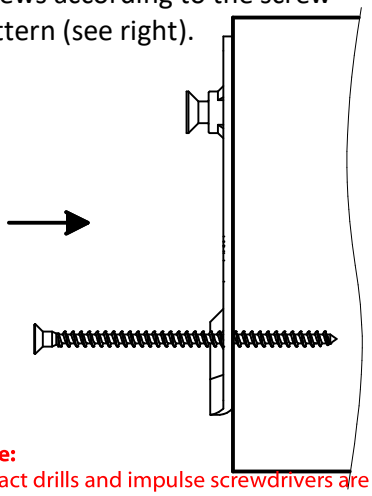
Main beam



2 x holes Ø 5,
depth 50 mm

3. Screw connection:

1. Fasten the connector using pre drilled positioning holes for 2 screws.
2. Screw in all other self-taping screws according to the screw pattern (see right).

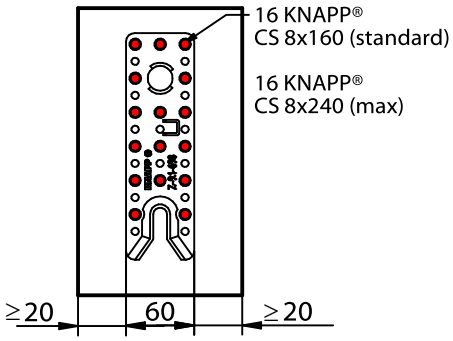


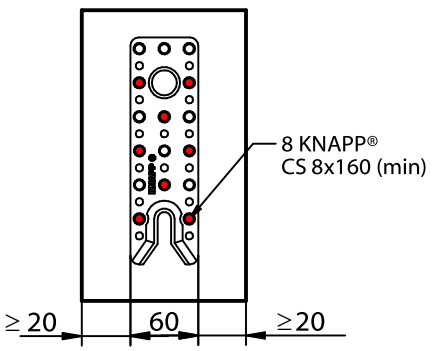
Note:
Impact drills and impulse screwdrivers are not suitable for fastening screws according to EC5!

RICON S Screw	Breaking Torque Mtu,k [Nm]	tightening torque [Nm]
8x80	30	22
8x160	30	24
8x240	30	24

Screw pattern secondary beam

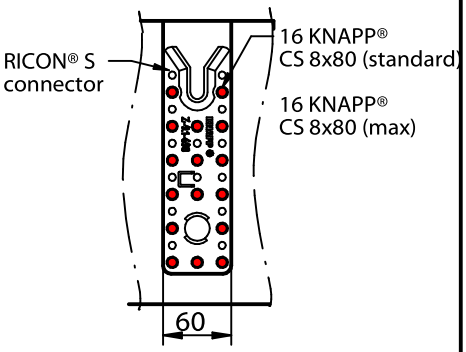
Number and position of screws :

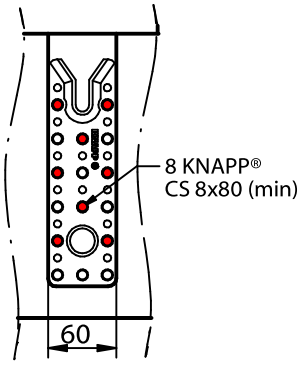




Screw pattern main beam

Number and position of screws :





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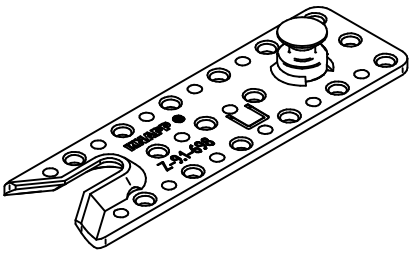


Art.-No. K127

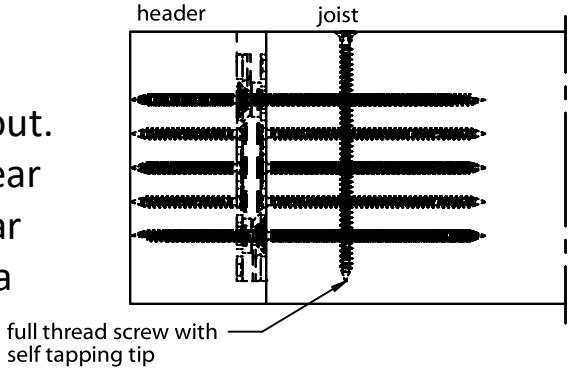
Assembly instructions
RICON® S 200/60 VS
Welded collar bolt
Milling the main beam

CE
ETA-10/0189

Milling length L in the main beam depending on the secondary beam height HN	
Secondary beam height HN	RICON® S 200x60
	Length L without shear reinforcement
[mm]	[mm]
160	-
180	-
200	-
220	-
240	210
260	220
280	240
300	250
320	-
360	-

Edge distance of the positioning holes t1 in the main and secondary beam depending on the secondary beam height HN	
Secondary beam height H_N	RICON® S 200x60
	Distance t_1 for secondary beam
	Distance t_1
[mm]	[mm]
160	-
180	-
200	-
220	-
240	50
260	60
280	80
300	90
320	-
360	-

Important Note:
If lower secondary beam heights are used, a shear force verification must be carried out. The cross-section can be reinforced for shear force with fully- threaded screws. The shear force reinforcement has to be veryfied by a structural engineer (EN 1995-1-1, NAD)!



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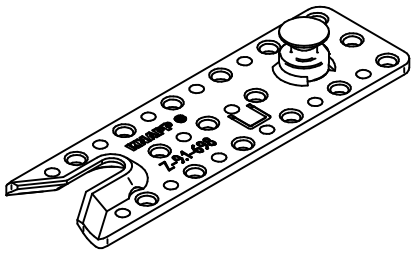
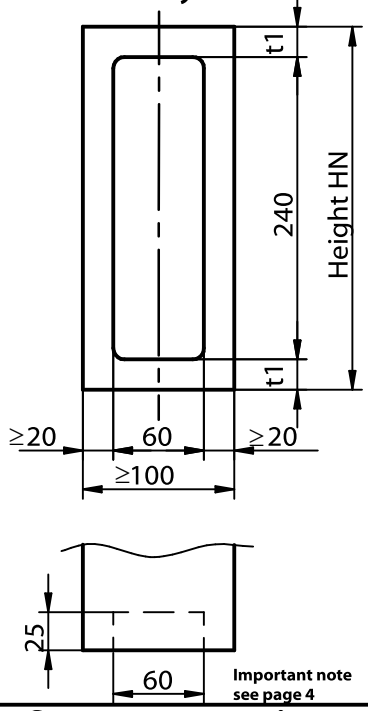


Art.-No. K127

Assembly instructions
RICON® S 200/60 VS
Welded collar bolt
Milling the secondary beam

CE
ETA-10/0189

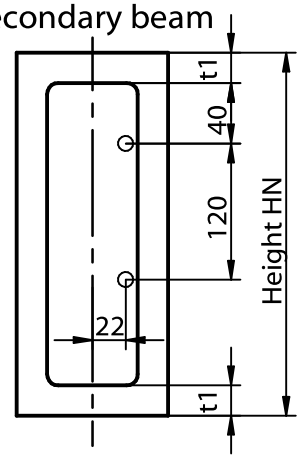
1. Milling pattern secondary beam



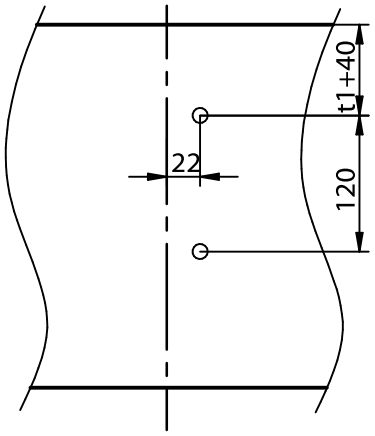
Important note see page 4

2. Pre drilling centered installation of connector

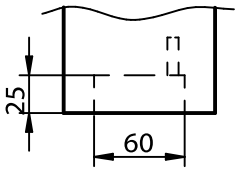
Secondary beam



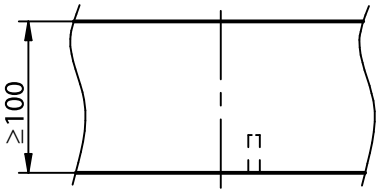
Main beam



2 x holes ø 5, depth 50 mm



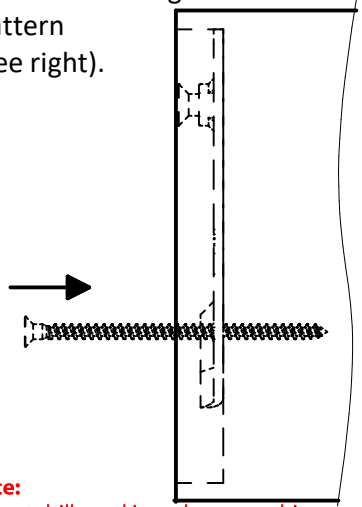
2 x holes ø 5, depth 50 mm



3. Screw connection:

1. Fasten the connector using pre drilled positioning holes for 2 screws.

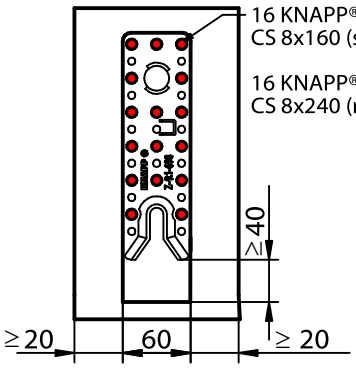
2. Screw in all other self-taping screws according to the screw pattern (see right).

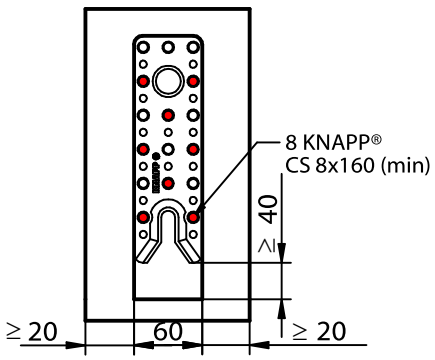


Note:
Impact drills and impulse screwdrivers are not suitable for fastening screws according to EC5!

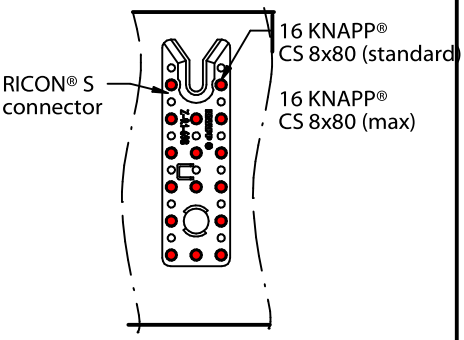
RICON S Screw	Breaking Torque $M_{tu,k}$ [Nm]	tightening torque [Nm]
8x80	30	22
8x160	30	24
8x240	30	24

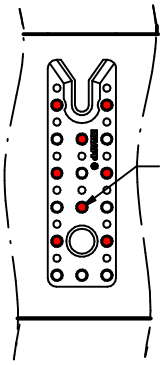
Screw pattern secondary beam
Number and position of screws :





Screw pattern main beam
Number and position of screws :





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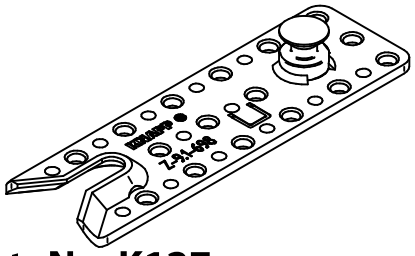

Art.-No. K127

Assembly instructions
RICON® S 200/60 VS
Welded collar bolt
Milling the secondary beam

CE
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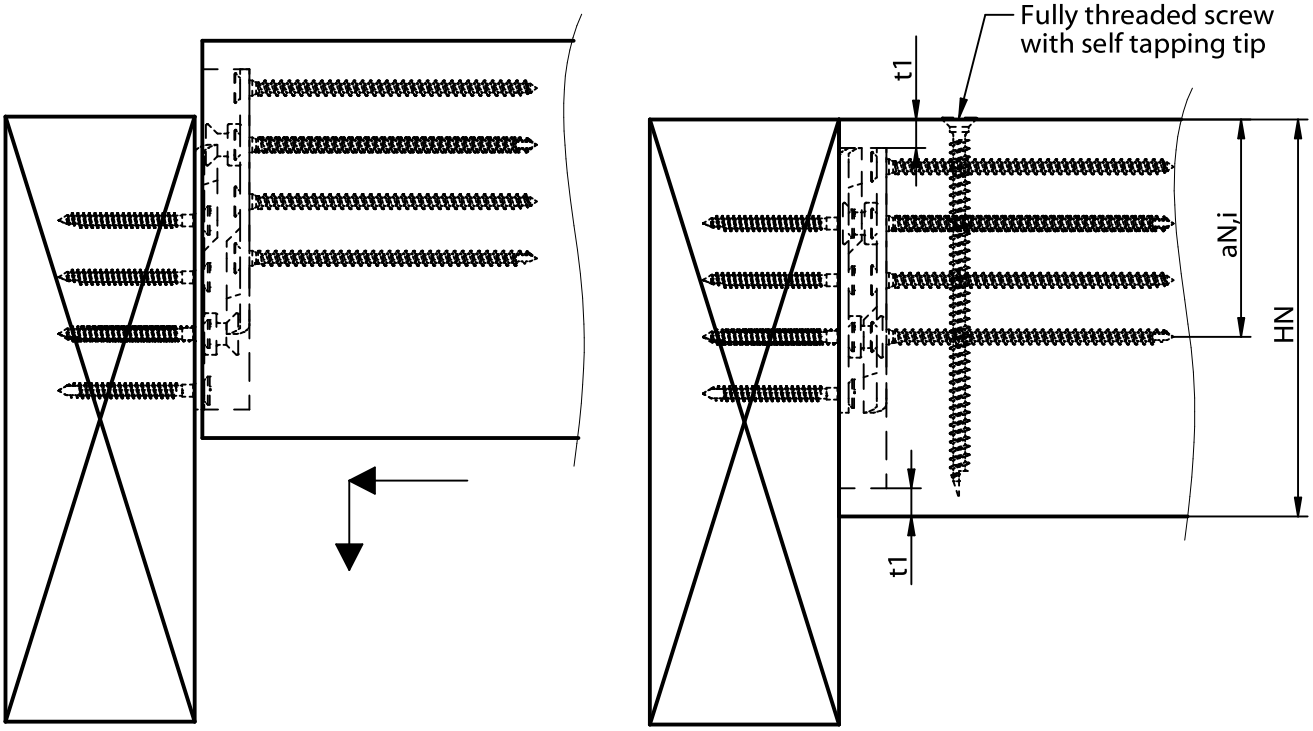

Important NOTE:
When assembling the secondary beam between two main beams or posts, the recess must be milled through on the lower side of the beam in order to be able to hang the beam.

Secondary beam height H_N	Distance t1 with respect to secondary beam height HN
	RICON® S 200x60
	Distance t_1
[mm]	[mm]
200	-
220	-
240	-
260	10
280	20
300	30
320	40
340	-
360	-

Important NOTE:
If lower secondary beam heights are used, a shear force verification must be carried out. The cross-section can be reinforced for shear force with fully- threaded screws. The shear force reinforcement has to be veryfied by a structural engineer (EN 1995-1-1, NAD)!

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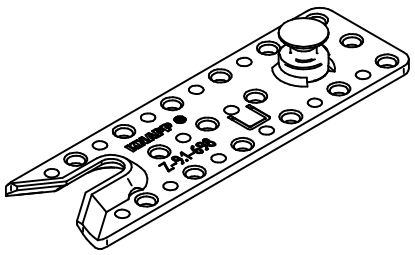


Assembly instructions

RICON® S 200/60 VS

Welded collar bolt

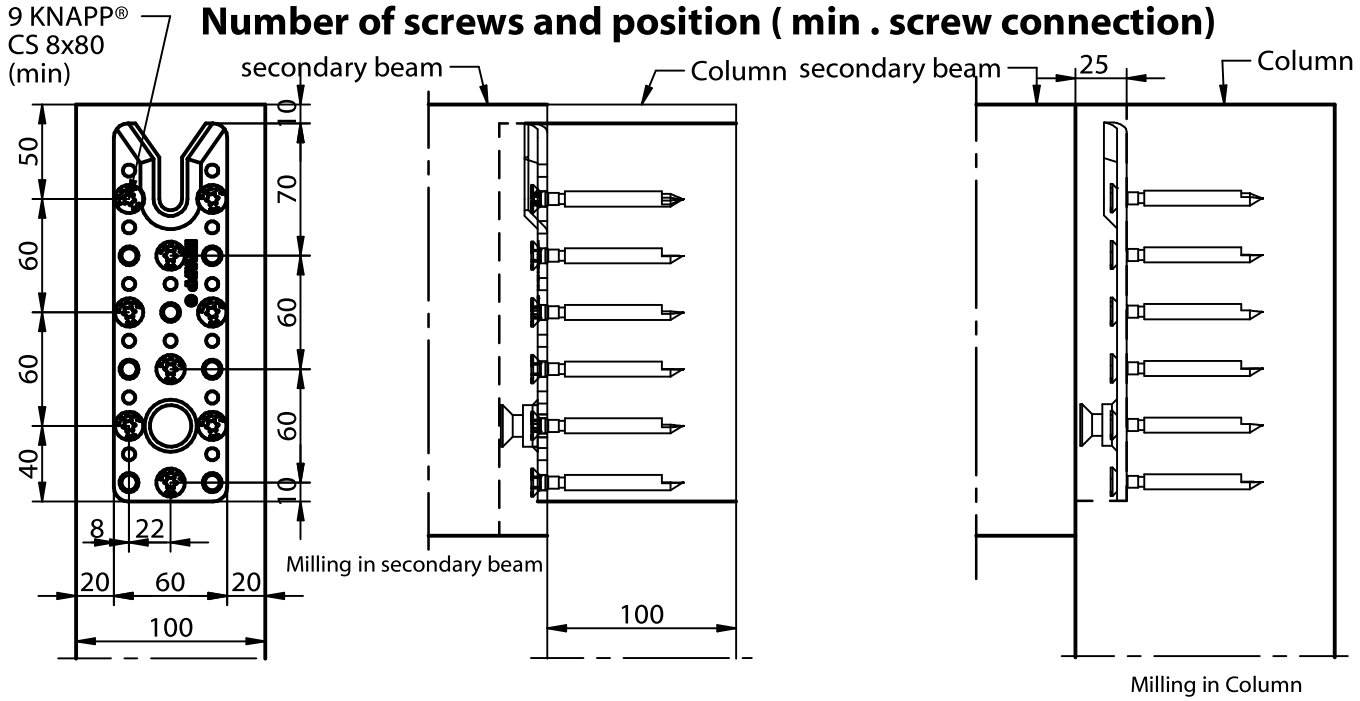
CE

ETA-10/0189

Art.-No. K127

Column connection

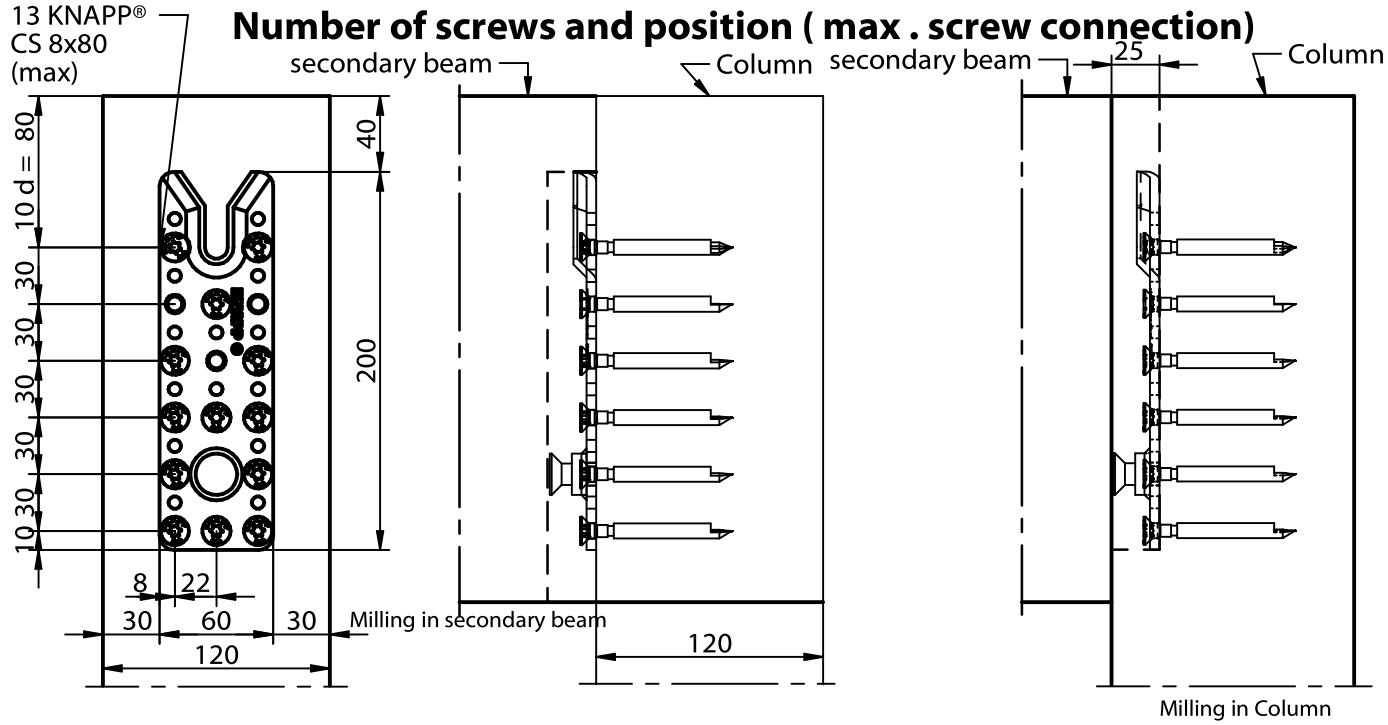
Number of screws and position (min . screw connection)



Minimum cross section for min. column screw connection

Minimum cross-sections apply to glulam.
In solid softwood, the 8x80 mm screws with diameter 5 mm must be pre-drilled over their full length!

Number of screws and position (max . screw connection)



Minimum cross section for max. column screw connection

Minimum cross-sections apply to glulam.
In solid softwood, the 8x80 mm screws with diameter 5 mm must be pre-drilled over their full length!

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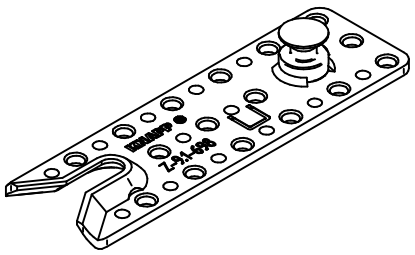


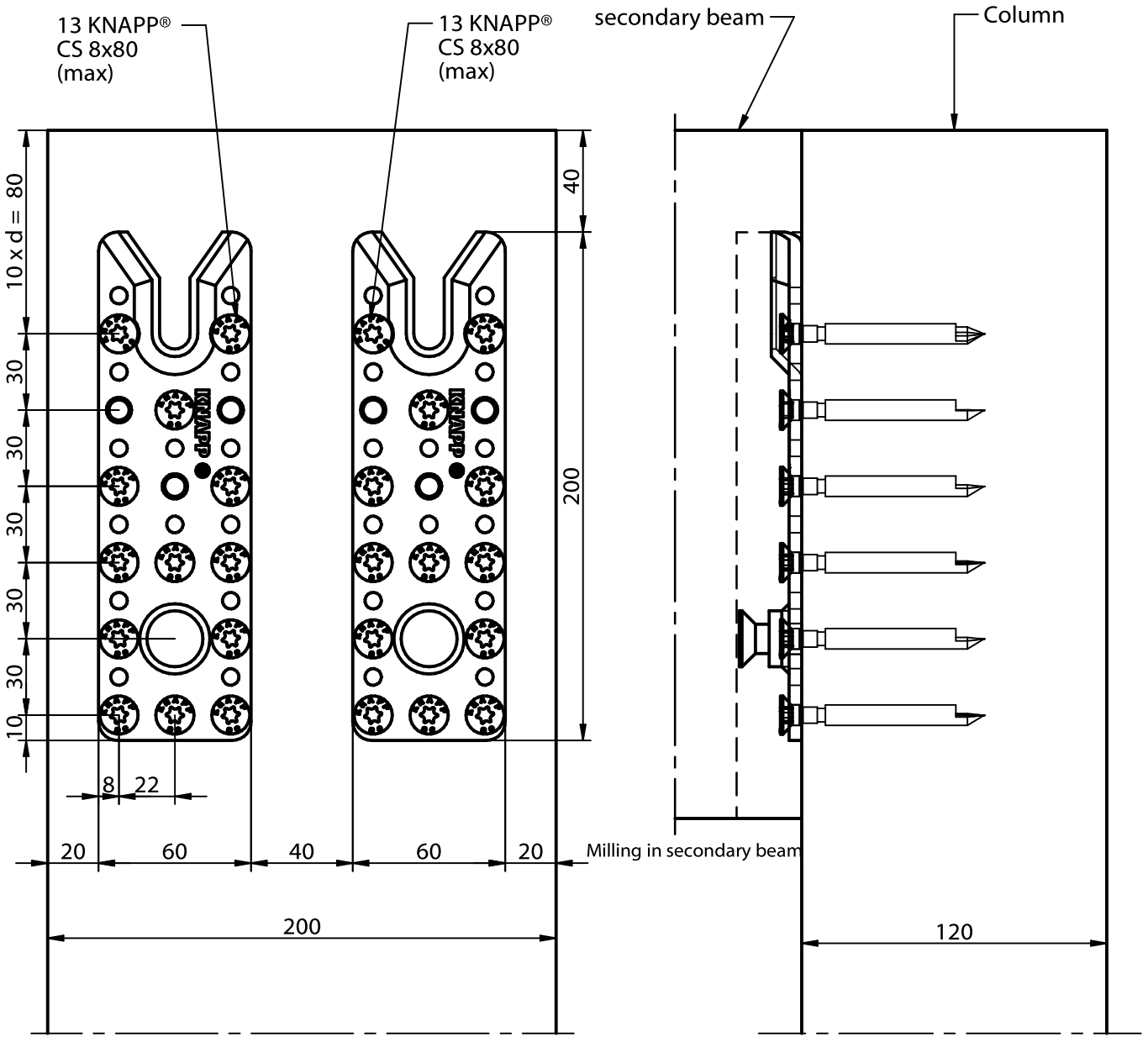
Assembly instructions
RICON® S 200/60 VS
Welded collar bolt

CE
ETA-10/0189

Art.-No. K127

Column connection

Number of screws and position (max . screw connection)



Minimum cross section for column connection 2 RICON S 200x60 VS side by side

Minimum cross-sections apply to glulam.
In solid softwood, the 8x80 mm screws with diameter 5 mm must be pre-drilled over their full length!

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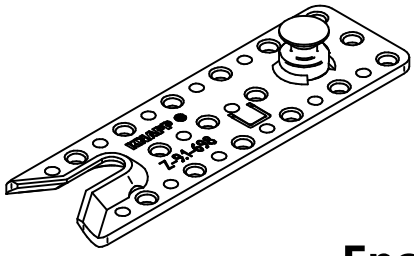


Notice de montage

RICON® S 200/60 VS

Goujon d'accroche soudé

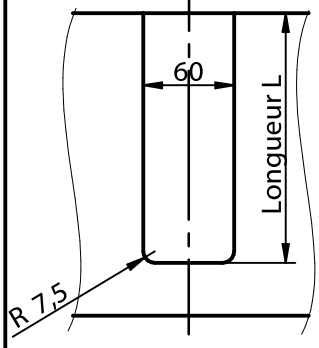
CE

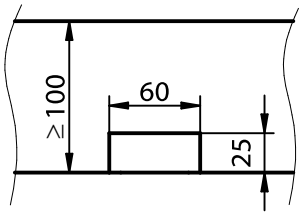
ETA-10/0189

Réf. K127

Encastrement sur la poutre principale

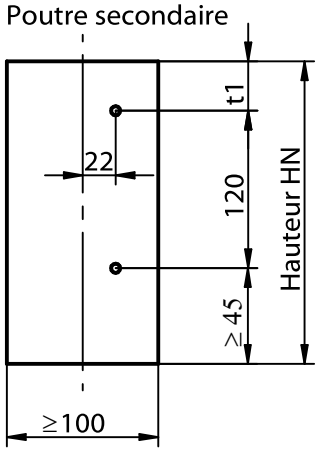
1. Fraiser la poutre principale





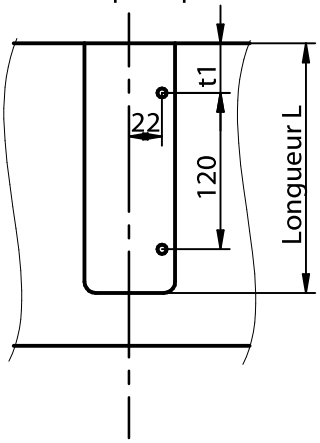
2. Percer

Poutre secondaire



2 perçages de position Ø 5 mm en bout de poutre, profondeur 50 mm

Poutre principale

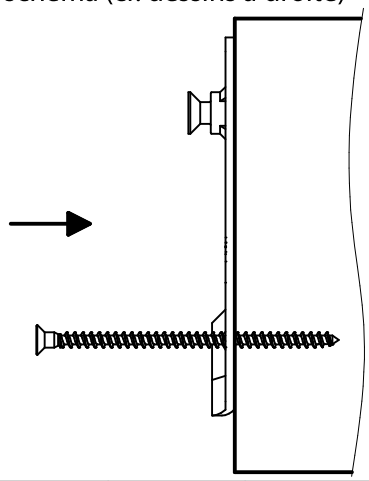


2 perçages de position Ø 5 mm sur la face de la poutre, profondeur 50 mm

3. Visser

1. Visser la ferrure sur les perçages de position

2. Visser le reste des vis suivant le schéma (cf. dessins à droite)



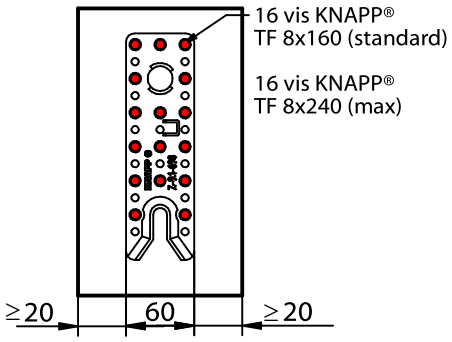
Vis RICON S	Couple de rupture Mtu,k [Nm]	Couple de serrage [Nm]
8x80	30	22
8x160	30	24
8x240	30	24

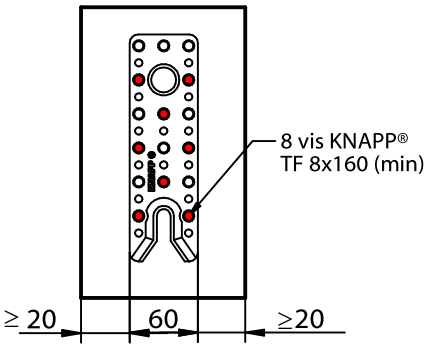
Remarque :

D'après l'EC5, les visseuses à chocs ou à impulsions ne sont pas appropriées pour le vissage !

Fixation sur la poutre secondaire (PS)

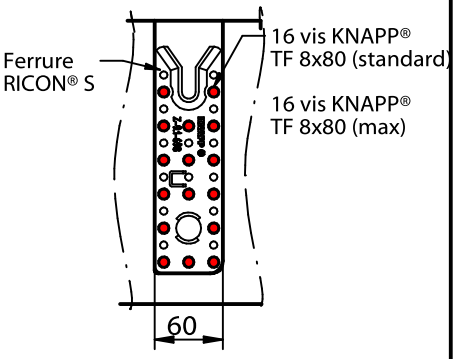
Nombre et position de vis :

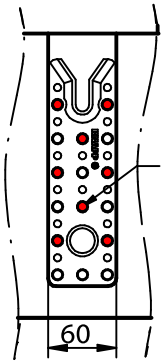




Fixation sur la poutre principale (PP)

Nombre et position de vis :





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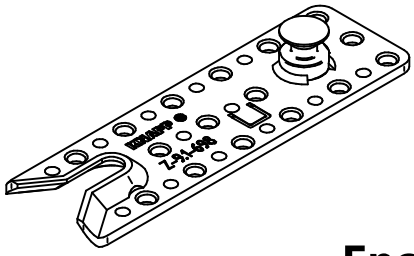


Notice de montage

RICON® S 200/60 VS

Goujon d'accroche soudé

CE

ETA-10/0189

Réf. K127

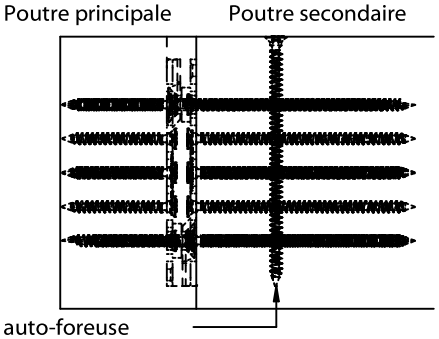
Encastrement sur la poutre principale

Longueur de fraisage L sur la poutre principale	
Hauteur de poutre secondaire H_N	RICON® S 200x60
	Longueur L sans renfort de traction transversale
[mm]	[mm]
160	-
180	-
200	-
220	-
240	210
260	220
280	240
300	250
320	-
360	-

Position de perçage t_1 sur la poutre principale et secondaire en relation avec la hauteur de poutre secondaire H_N	
Hauteur de poutre secondaire H_N	RICON® S 200x60
	Position de perçage t_1 sur la poutre secondaire
	Distance t_1
[mm]	[mm]
160	-
180	-
200	-
220	-
240	50
260	60
280	80
300	90
320	-
360	-

Remarque importante :

Faire contrôler par un B.E. compétant dans le cas où la hauteur de la poutre secondaire et plus faible qu'indiquée ci-dessus. Une section plus faible peut être renforcée par des vis de renfort transversales. (EN 1995-1-1, NAD)



Vis à filetage total avec pointe auto-foreuse
Pour le renfort tranchant des poutres secondaires

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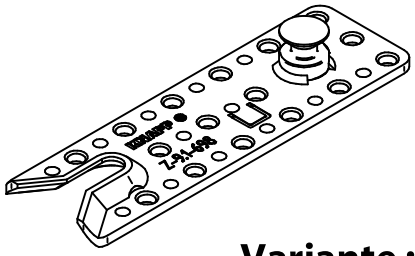

Notice de montage

RICON® S 200/60 VS

Goujon d'accroche soudé

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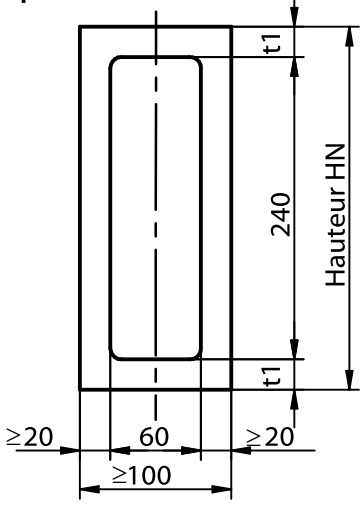
ETA-10/0189

Réf. K127

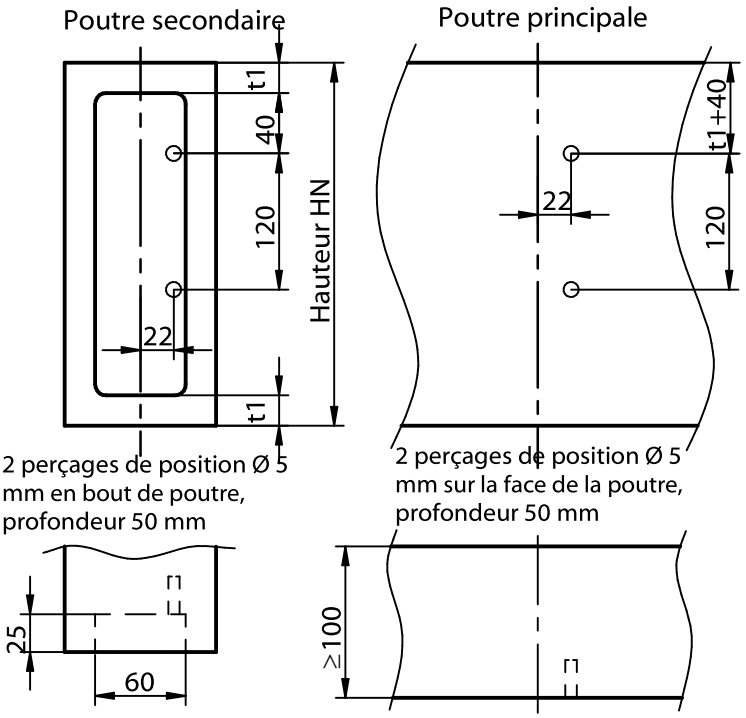
Variante : Encastrement sur la poutre secondaire

1. Fraiser la poutre secondaire



Notice importante page 4

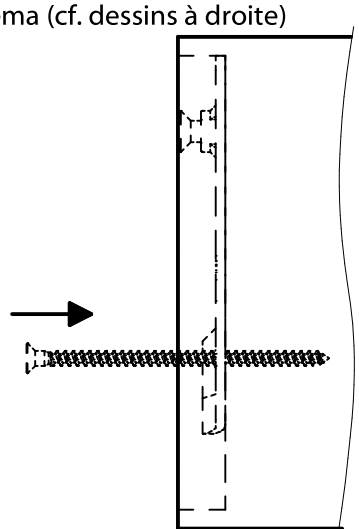
2. Percer



3. Visser

1. Visser la ferrure sur les perçages de position

2. Visser le reste des vis suivant le schéma (cf. dessins à droite)



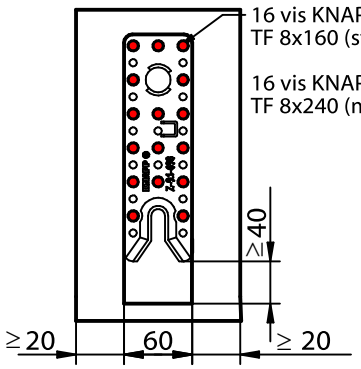
Vis RICON S	Couple de rupture Mtu,k [Nm]	Couple de serrage [Nm]
8x80	30	22
8x160	30	24
8x240	30	24

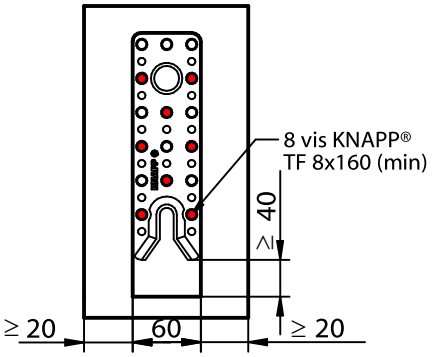
Remarque :

D'après l'EC5, les visseuses à chocs ou à impulsions ne sont pas appropriées pour le vissage !

Fixation sur la poutre secondaire (PS)

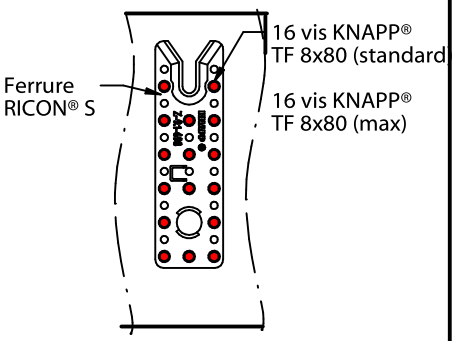
Nombre et position de vis :

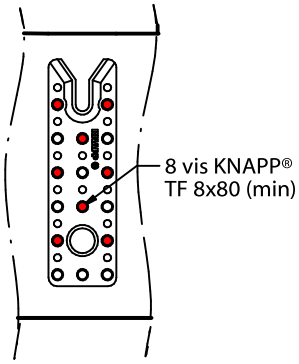




Fixation sur la poutre principale (PP)

Nombre et position de vis :





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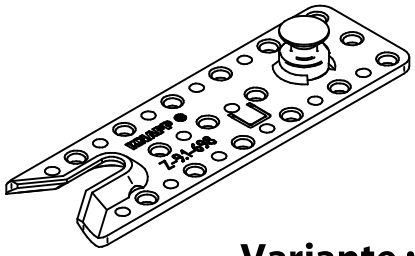


Notice de montage

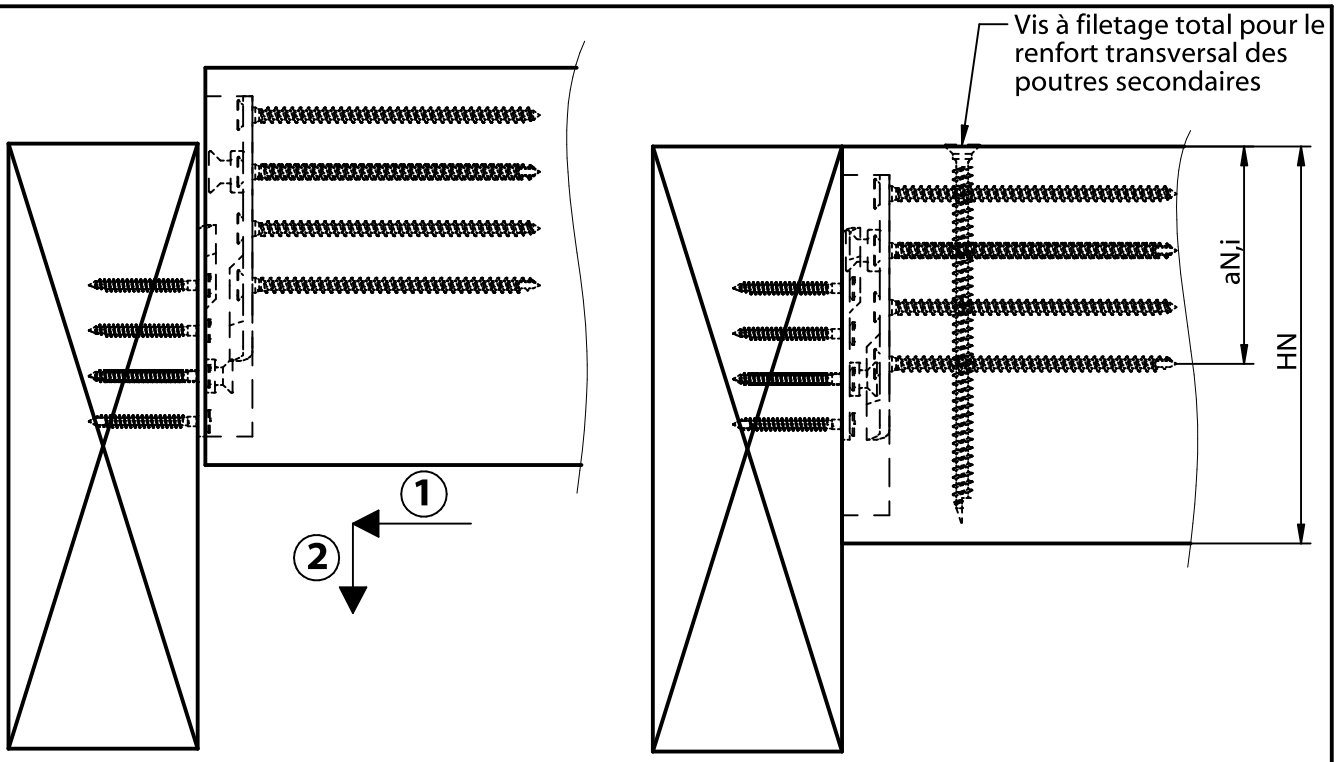
RICON® S 200/60 VS

Goujon d'accroche soudé

CE
ETA-10/0189

Réf. K127

Variante : Encastrement sur la poutre secondaire



Remarque importante :
Lors de montage de poutres secondaires entre 2 poutres principales ou 2 poteaux, il est nécessaire de réaliser les usinages débouchants par-dessous pour permettre l´emboitement.

Hauteur de poutre secondaire	Distance du bord t_1 en relation avec la hauteur de la poutre secondaire H_N
	RICON® S 200x60
H_N	Distance t_1
[mm]	[mm]
200	-
220	-
240	-
260	10
280	20
300	30
320	40
340	-
360	-

Remarque importante :
Faire contrôler par un B.E. compétant dans le cas où la hauteur de la poutre secondaire et plus faible qu'indiquée ci-dessus. Une section plus faible peut être renforcée par des vis de renfort transversales. (EN 1995-1-1, NAD)

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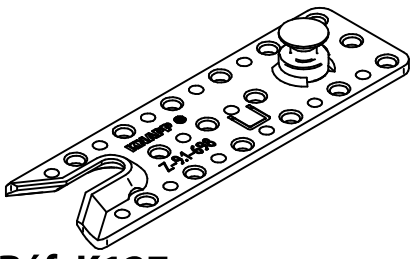


Notice de montage

RICON® S 200/60 VS

Goujon d'accroche soudé

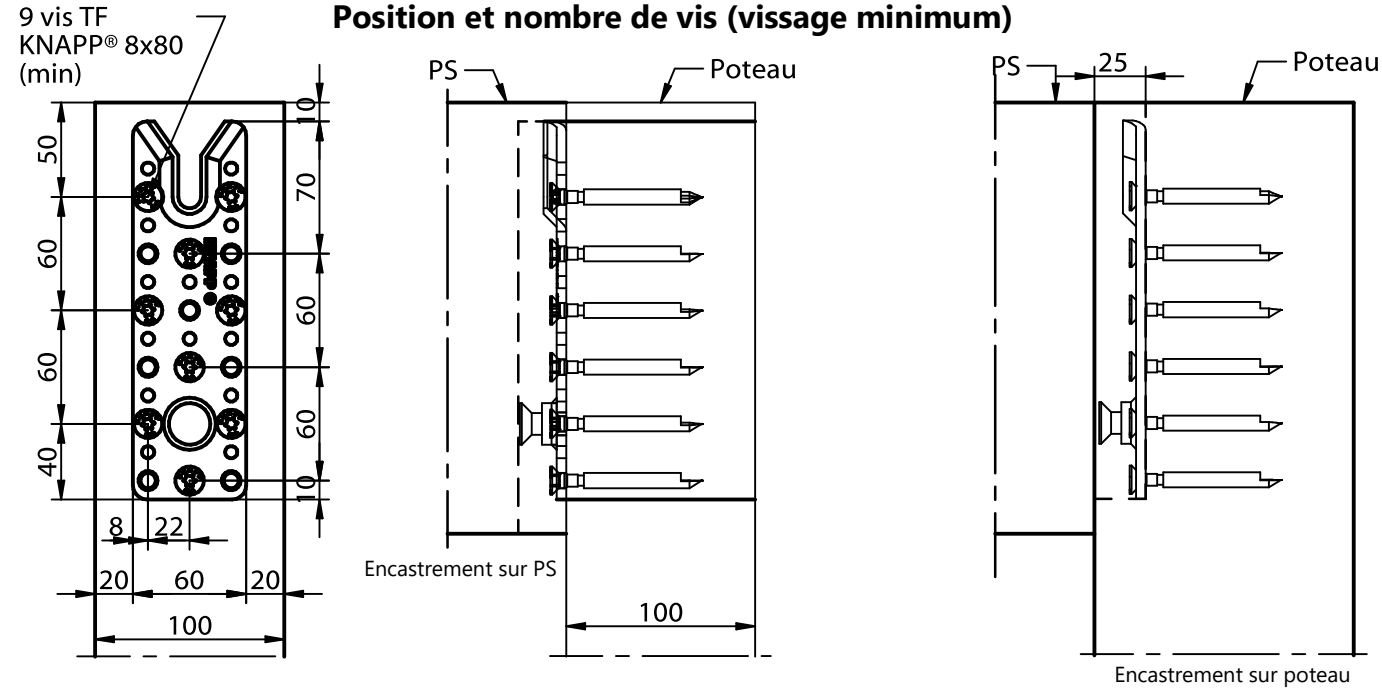
CE

ETA-10/0189

Réf. K127

Assemblages poteaux-poutres

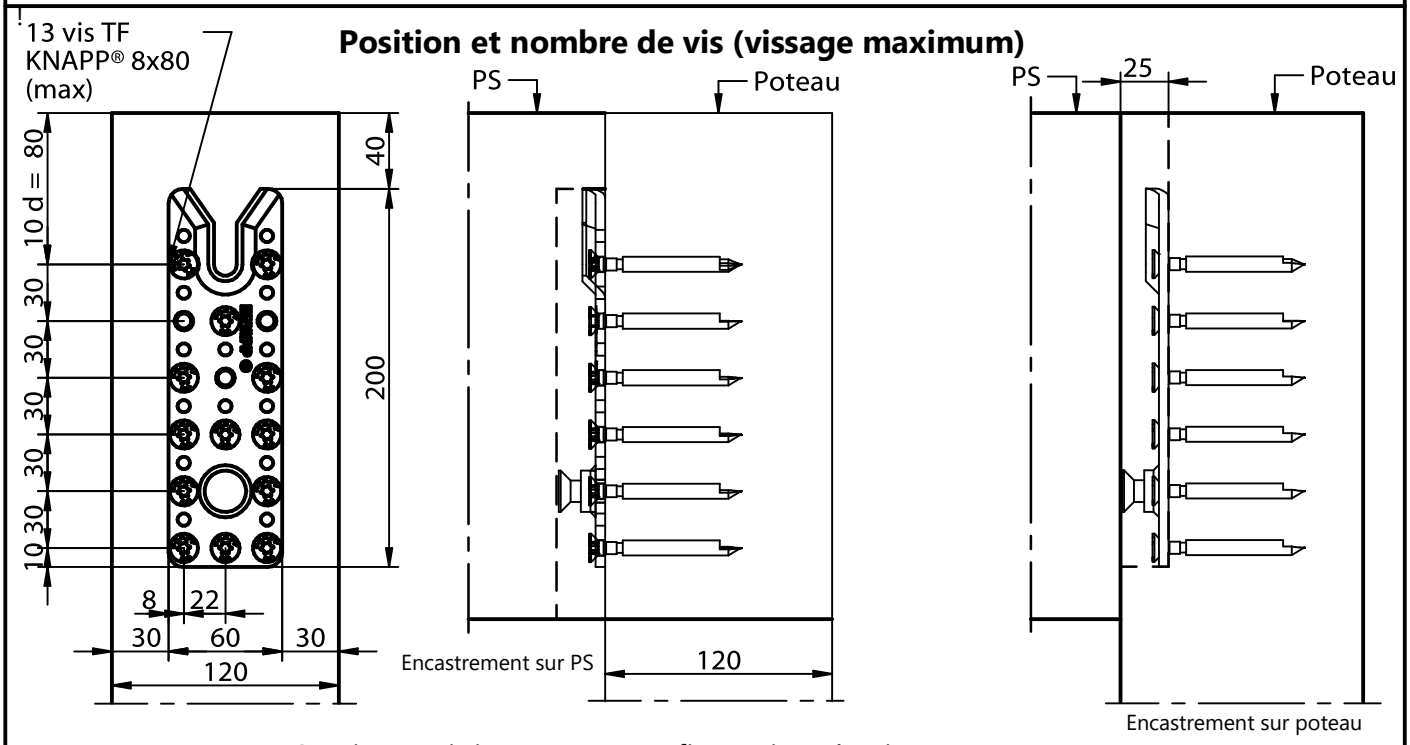
Position et nombre de vis (vissage minimum)



Sections minimums en configuration de vissage min.

Dimensions valables pour l'utilisation sur bois lamellés collés.
Pour les résineux massifs, il est recommandé de pré-percer les vis de 8x80 mm à un Ø 5 mm sur toute la longueur

Position et nombre de vis (vissage maximum)



Sections minimums en configuration de vissage max.

Dimensions valables pour l'utilisation sur bois lamellés collés.
Pour les résineux massifs, il est recommandé de pré-percer les vis de 8x80 mm à un Ø 5 mm sur toute la longueur

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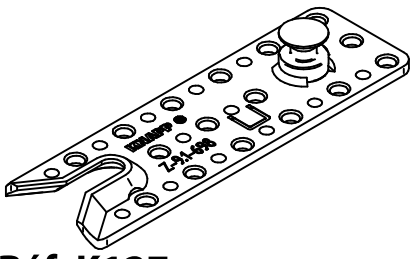


Notice de montage

RICON® S 200/60 VS

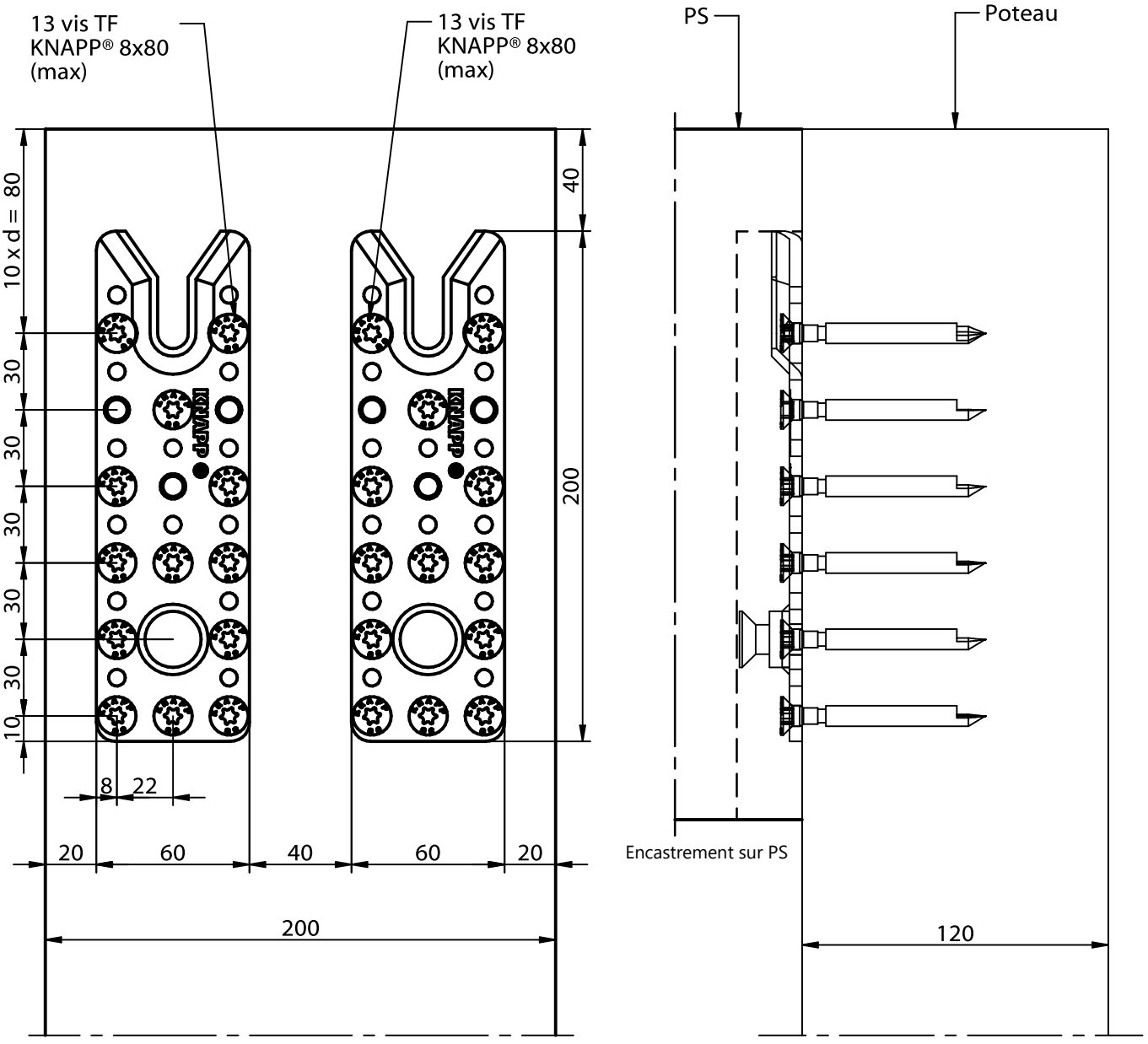
Goujon d'accroche soudé

CE
ETA-10/0189

Réf. K127

Assemblages poteaux-poutres

Position et nombre de vis (vissage maximum)



Section minimum en configuration 2 RICON S 200x60 VS juxtaposés

Dimensions valables pour l'utilisation sur bois lamellés collés.
Pour les résineux massifs, il est recommandé de pré-percer les vis de 8x80 mm à un Ø 5 mm sur toute la longueur !

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